Protect Yourself

J. Ferrell
Extension Weed Specialist
What is PPE

• PPE – Personal Protection Equipment

• These protect you from pesticide exposure

• Include facemasks, respirators, tyvek suits, gloves, rubber boots, etc.
I don’t like wearing PPE because...

• It’s too hot!
• It’s too cumbersome!
• It’s too much trouble!
The truth is...

- You rarely need to wear this much PPE
- The label will tell you exactly what to wear
- You can always wear more, but not less
Corrosive • Causes Irreversible Eye Damage • Harmful If Swallowed Or Absorbed Through Skin • Prolonged Or Frequently Repeated Skin Contact May Cause Allergic Reaction In Some Individuals

Do not get in eyes or on skin or clothing.

Personal Protective Equipment (PPE)
Applicators and other handlers must wear:
• Long-sleeved shirt and long pants
• Shoes plus socks
• Protective eyewear
• Chemical resistant gloves (≥ 14 mils) such as butyl rubber, natural rubber, neoprene rubber or nitrile rubber

Discard clothing and other absorbent materials that have been drenched or heavily contaminated with this product’s concentrate. Do not reuse them. Follow manufacturer’s instructions for cleaning/maintaining PPE. If no such instructions for washables exist, use detergent and hot water. Keep and wash PPE separately from other laundry.

Engineering Controls
When handlers use closed systems, enclosed cabs, or aircraft in a manner that meets the requirements listed in the WPS (40 CFR 170.240(d)(4-6), the handler PPE requirements may be reduced or modified as specified in the WPS.

User Safety Recommendations
Users should:
• Wash hands before eating, drinking, chewing gum, using tobacco, or using the toilet.
• Remove clothing immediately if pesticide gets inside. Then wash thoroughly and put on clean clothing.
• Remove PPE immediately after handling this product. Wash the outside of gloves before removing. As soon as possible, wash thoroughly and change into clean clothing.
Personal Protective Equipment (PPE)

Applicators and other handlers must wear:

- Long-sleeved shirt and long pants
- Shoes plus socks
- Protective eyewear
- Chemical resistant gloves (≥ 14 mils) such as butyl rubber, natural rubber, neoprene rubber or nitrile rubber

Discard clothing and other absorbent materials that have been drenched or heavily contaminated with this product’s concentrate. Do not reuse them. Follow manufacturer’s instructions for cleaning/maintaining PPE. If no such instructions for washables exist, use detergent and hot water. Keep and wash PPE separately from other laundry.

Engineering Controls

When handlers use closed systems, enclosed cabs, or aircraft in a manner that meets the requirements listed in the WPS (40 CFR 170.240(d)(4-6), the handler PPE requirements may be reduced or modified as specified in the WPS.

User Safety Recommendations

Users should:

- Wash hands before eating, drinking, chewing gum, using tobacco, or using the toilet.
- Remove clothing immediately if pesticide gets inside. Then wash thoroughly and put on clean clothing.
- Remove PPE immediately after handling this product. Wash the outside of gloves before removing. As soon as possible, wash thoroughly and change into clean clothing.
Protective Eyewear

Yes, but hot and commonly fog up

No, these are not safety glasses. You must have side shields.
I like these the best

These are tinted for sun protection and have side shields. You can generally buy these for $5.
Personal Protective Equipment (PPE)
Applicators and other handlers must wear:
- Long-sleeved shirt and long pants
- Shoes plus socks
- Protective eyewear
- Chemical resistant gloves (≥ 14 mils) such as butyl rubber, natural rubber, neoprene rubber or nitrile rubber

Discard clothing and other absorbent materials that have been drenched or heavily contaminated with this product’s concentrate. Do not reuse them. Follow manufacturer’s instructions for cleaning/maintaining PPE. If no such instructions for washables exist, use detergent and hot water. Keep and wash PPE separately from other laundry.

Engineering Controls
When handlers use closed systems, enclosed cabs, or aircraft in a manner that meets the requirements listed in the WPS (40 CFR 170.240(d)(4-6), the handler PPE requirements may be reduced or modified as specified in the WPS.

User Safety Recommendations
Users should:
- Wash hands before eating, drinking, chewing gum, using tobacco, or using the toilet.
- Remove clothing immediately if pesticide gets inside. Then wash thoroughly and put on clean clothing.
- Remove PPE immediately after handling this product. Wash the outside of gloves before removing. As soon as possible, wash thoroughly and change into clean clothing.
Safety after the application

**User Safety Recommendations**

Users should:

- Wash hands before eating, drinking, chewing gum, using tobacco, or using the toilet.
- Remove clothing immediately if pesticide gets inside. Then wash thoroughly and put on clean clothing.
- Remove PPE immediately after handling this product. Wash the outside of gloves before removing. As soon as possible, wash thoroughly and change into clean clothing.
## Detection of Urinary Glyphosate

### # of Detections

<table>
<thead>
<tr>
<th>Day of application</th>
<th>Applicator</th>
<th>Spouse</th>
<th>Children</th>
</tr>
</thead>
<tbody>
<tr>
<td>Day of application</td>
<td>29</td>
<td>2</td>
<td>9</td>
</tr>
<tr>
<td>1 day after</td>
<td>23</td>
<td>0</td>
<td>7</td>
</tr>
<tr>
<td>2 days after</td>
<td>16</td>
<td>1</td>
<td>5</td>
</tr>
<tr>
<td>3 days after</td>
<td>13</td>
<td>1</td>
<td>4</td>
</tr>
</tbody>
</table>

*Total of 48 farmers and their families*
Question

• Do you ever wash your safety glasses or reusable gloves?

• If you don’t, you should
Jug Disposal

• There are several options
• Just check the label

Container Disposal for Refillable Containers: Seal all openings which have been opened during use. Return the empty container to a collection site designated by Dow AgroSciences. If the container has been damaged and cannot be returned according to the recommended procedures, contact Dow AgroSciences Customer Service Center at 1-800-258-1470 to obtain proper handling instructions.

Container Disposal (Metal): Do not reuse container. Triple rinse (or equivalent). Then offer for recycling or reconditioning, or puncture and dispose of in a sanitary landfill, or by other procedures approved by state and local authorities.

Container Disposal (Plastic): Do not reuse container. Triple rinse (or equivalent). Then offer for recycling or reconditioning, or puncture and dispose of in a sanitary landfill, or by incineration, or, if allowed by state and local authorities, by burning. If burned, stay out of smoke.

General: Consult federal, state, or local disposal authorities for approved alternative procedures.
Pressure Rinse
Triple rinse, puncture, toss
What do you do first??

CHEMICAL SPILL
1. Put on PPE

2. Contain the spill
Fancy Spill Kits are nice, but…
Fancy Spill Kits are nice, but…

- You may not have a kit nearby
- Some kits are more absorbent than others
- Must dispose of soaked materials as hazardous waste
A shovel of dirt almost always works better
Cat Litter works great for warehouses
Even works for big jobs
A shovel of dirt almost always works better

• After spill is contained, dispose of the soil or clay litter on a labeled site.
What do you do if you have a spill like this?
Run like hell
Be right. Be safe.